

# FOLIO

## Protein Research Group Receives Additional Funding

Five years ago the Medical Research Council of Canada Group in Protein Structure and Function was established at The University of Alberta. Recently, the research efforts and progress of the group were formally recognized through a further five years of support by the MRC.

René Simard, MRC President, and Myer Horowitz, President of the University, signed an agreement under which the group will receive \$686,000 per year for three years. The funds will cover operating expenses and the salaries of three members of the group. The final two years of support will be negotiated in 1982. The group was also awarded \$318,500 for the purchase of equipment in 1979-80.

The overall period covered by the agreement is 1 July 1979 to 30 June 1984.

The group was formed by way of an agreement which saw the MRC provide nearly \$3 million over five years for basic research in the area of protein structure-function relationships, with the accent on representative muscle protein and enzyme systems.

The importance of the research is obvious as proteins are at the centre of every function upon which the human body depends; they could be described as the building blocks of every body cell.

In the intervening the group has conducted research into the behavior of the of the proteins involved in the relaxation of muscle and has investigated, largely through x-ray crystallographic studies, a variety of proteolytic enzymes from bacterial,



Present at the signing of the MRC agreement were (left to right, standing): L.B. Smillie, C. Kay, J. Colter; (sitting): M. Horowitz, R. Simard, D.F. Cameron, P.A. Costin.

fungal and mammalian sources.

Drs. Cyril Kay and L.B. Smillie, co-directors of the group, say that, over the past four years, "remarkable success has been achieved in deducing the crystal structures of three serine proteases (amino acid enzymes) and a carboxyl (acid) protease to medium resolution.

"In addition to providing precise geometrical information on reactive groups at the active sites of these enzymes, their three dimensional portrayals represent starting points from which to build concepts of the catalytic mechanisms of serine and acid proteases."

Studies are underway to obtain a detailed description of the molecular geometry of both the native enzyme and the enzyme substrate complex.

The studies hold "the exciting

prospect that we are on the threshold of understanding how these enzymes function," Drs. Kay and Smillie note.

In addition the group has made a number of contributions to our knowledge of the molecular mechanisms by which the contraction-relaxation cycle of skeletal and heart muscle tissue is regulated. Detailed studies of the complex system of contractile proteins found in muscle and non-muscle tissues by a variety of chemical and physical techniques have shed new light on the processes by which the chemical energy of ATP (a source of energy for physiological reactions) can be converted into mechanical work. Such mechanisms are present not only in normally contracting skeletal, heart and smooth muscles but in nearly all living cells of higher organisms.

Since coming into existence, the group has contributed to the publication of more than 130 articles and papers and has interacted with a number of Canadian and international researchers.

In addition to Drs. Kay and Smillie, the other primary investigators are Drs. Michael James, Robert Hodges, Brian Sykes, and Wayne Anderson. Each person is a member of the Department of Biochemistry within the Faculty of Medicine.

Dr. Anderson will shortly join the group to replace Dr. R.J. Fletterick who left last June to take up an appointment at the University of California Medical Centre in San Francisco. Dr. Anderson has been a research associate at the Institute of Molecular Biology, University of Oregon. □

# The Edmonton International Folk Dancers

About twenty years ago University faculty members founded an independent, non-profit club to promote international folk dancing as a recreational activity. In 1967 the club was reorganized to its present form, and was opened to University students and the public. Membership in recent years has been in the range of one hundred dancers, with a weekly attendance of about sixty-five. Club members vary in age from sixteen to sixty years, and come from all ethnic and cultural backgrounds. University staff and students, as well as people not affiliated with the campus, constitute this unique and deserving club.

For many years the club has been an integral part of campus life and a major element in Edmonton's dance community. As well as providing weekly dance sessions for members, the club serves as a teaching, skill, and material resource for the greater Edmonton community. The club gives frequent performances to a variety of audiences, and occasionally conducts outdoor



Rumania, Yugoslavia, Albania, and others.

With involvement in such a wide range of cultures, the club has been able to amass a very large repertoire consisting of some 150 dances. It is interesting to note here that the Edmonton Club is the only group of its type functioning in the prairie region. The only comparable groups in Canada are on the east and west coasts.

The club plays an important rôle in the training and replenishment of a variety of dance groups in the Edmonton area. Many members of the club move to specialized cultural groups or hold overlapping memberships. Over the years a number of offshoot groups have been formed by members of the International Folk Dancers. Club instructors maintain a teaching function, going out on occasion to other clubs both in the Edmonton area and the remainder of the western provinces.

To augment its resources, the club collects annual fees from its members. The money is used for the purchase of music, teaching materials, and to maintain equipment. The club maintains a continuing education fund, which is used to bring in professional teachers from other centres as well as send out their own instructors for workshops. The community as a whole realizes the benefits of this money in the form of teaching services, consultation, and the use of the club's music and instructional material.

Although the club strives to maintain high standards of achievement, emphasis is placed on an informal approach to the study of dance. A mix of performance and recreation is the group's primary concern. People of all levels of achievement join the club because they love to dance or wish to learn folk dance.

For more information about the Edmonton International Folk Dancers, please telephone Art Burgess at 435-5834. □

## FOLIO

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All inquiries and correspondence should be directed to:

Folio  
Office of Community Relations  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8  
Telephone: (403) 432-2325

The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons.

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participation sessions. Perhaps the group's most noteworthy engagement was a series of six performance and participation entertainment programs provided for the XI Commonwealth Games athletes living at the "Village" here on campus.

The dance group meets weekly on Friday evenings in the Physical Education building. Meetings begin with an instructional session, during which new dances are studied by the club as a whole. The remainder of the sessions are usually spent in a more casual form, with dancing being opened to requests. During these weekly sessions the club trains a demonstration group for a variety of performances.

In order to promote folk dancing as well as expand and

review their repertoire, the club sponsors one or two dance workshops each year. These widely advertised workshops normally draw about seventy people from the Edmonton area. In the past twelve years the club has organized sixteen workshops, featuring internationally renowned folk dancers from all over North America. The most recent workshop took place this past weekend 3 and 4 November. At the workshop internationally renowned folk dancer, Dick Oakes, instructed dance from Europe, the Balkans, and the Middle East. Previous workshops have explored dance from a variety of countries or provinces such as Lebanon, Poland, Sweden, the Balkans, Hungary, Bulgaria, the Ukraine, Israel, Greece, French-Canada,

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## Literary Theory Conference

On 14, 15, and 16 November, a conference on "Literary Theory and Its Application in Textual Analysis" will be held at The University of Alberta. The conference, whose title in Spanish is "La teoría literaria y su aplicación al análisis de textos," has been organized in particular by Professors Varela and Young and is sponsored by the Social Sciences and Humanities Research Council of Canada, the Conference Fund of The University of Alberta, and our Departments of Romance Languages and Comparative Literature. It will be attended by scholars from across Canada and from the United States.

All sessions will be held in the Senate Chamber on the second floor of the Arts Building. The program follows:

### *Wednesday, 14 November*

9 a.m.-9:30 a.m. Registration of participants in the Senate Chamber.

9:30 a.m. Inauguration of the "workshop" with speakers Charles Moore, Associate Dean of the Faculty of Arts; Jo Ann Creore, Chairman of the Department of Romance Languages; and Richard Young, of the organizing committee.

10 a.m.-11 a.m. Jaime Concha of the University of Washington, Seattle: "Michel Foucault y las ciencias humanas."

11:30 a.m.-12:30 p.m. Antonio Gómez-Moriana of the Université Montréal: "La subversión del discurso ritual."

2 p.m.-3 p.m. Félix Martínez Bonati of Columbia University, New York: "Representación y ficción."

3 p.m.-4 p.m. Fernando Veas Mercado of the Université Laval: "Discurso literario y acto de lenguaje."

4:30 p.m.-5:30 p.m. Paul A. Robberecht of The University of Alberta: "A Practical Application of Genette's 'Discours du récit'."

6 p.m.-7:30 p.m. Reception at The Faculty Club.

### *Thursday, 15 November*

9 a.m.-10 a.m. Louise Fothergill-Payne of the University of Calgary: "Desde la presentación hasta la dramatización del relato: 1570-1590, veinte años decisivos en la formación del teatro español."

10 a.m.-11 a.m. Ángel López-Fernández of Carleton University: "Reflexiones en torno a la recepción de la obra teatral."

11:30 a.m.-12:30 p.m. Fernando de Toro of McMaster University: "Problemas de teatro: en busca de un método de especificación actancial."

2 p.m.-5:30 p.m. A round-table

discussion led by members of the Spanish section of the Department of Romance Languages: José Varela, Richard Young, Carol Parker, and Carlos J. Garcia.

7 p.m.-9 p.m. Banquet in the VIP Room, Lister Hall.

### *Friday, 16 November*

9 a.m.-10 a.m. Amaryll Chanady of The University of Alberta: "The Structure of the Fantastic in Cortázar's 'Cambio de luces'."

10 a.m.-11 a.m. Juan Carlos Lértora of The University of Alberta: "La estructura de la 'mis en abyme' en 'Fragmentos de Apocalipsis', de Gonzalo Torrente Ballester."

11:30 a.m.-12:30 p.m. Mario Valdes of the University of Toronto: "Heuristic Models of Inquiry."

2 p.m.-3 p.m. Mario Valdes: "The Scope of Ricoeur's Hermeneutical Reflection on Literature."

3 p.m.-4 p.m. Félix Martínez Bonati: "¿Qué hacer con los textos literarios?"

4:30 p.m.-6 p.m. Evaluation and Conclusion.

6:30 p.m.-9 p.m. Cocktails at the house of conference organizer José Varela.

For further information concerning this conference, please telephone Professor Young at the Department of Romance Languages, 432-2525 or 432-3272. □

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## General Faculties Council

The following persons have been appointed to the General Faculties Council during past regularly scheduled meetings:

J.R. Colbourne, R.L. Jones, J.C. Russell, Scott Hagen, Kathryn Long, Bonnie Abel, R. Read, P. Brunel, D. Russel, J. L'Ecuyer, H. Keichinger, K. Toll, P. Fisher, M. Atkinson, G. Weber, J.A. Summers, D. Robertson, J. Davidson, J. Day, M. Zechetmayr, K. Boodram, K. Johnson, G. Kirk, R. Roe, V. Finemore, K. Charron.

The 29 October meeting of General Faculties Council saw the acceptance of three reports: the Executive Committee Report, the Report of the Board of Governors, and the Report of the Nominating Committee. Other business included in the meeting concerned Nominating Committee replenishment, the report of the Committee on Administration and Professional Officers, and the availability of study space for students.

During the meeting, a lengthy discussion broke out over the short time frame allowed for the preparation of the Internal Reviews and Program Evaluations.

These internal reviews are to

consist of an examination of the existing functions of the various departments across campus. The reviews are to be carried out according to a set of guidelines designed to give information that would be meaningful to all departments. The examinations are intended to define rôles and functions, and priorities of departments and Faculties. Although intensive, the reports are not to be overly elaborate. For this reason they have come to be referred to as "mini-reviews." The "mini-reviews" are to be followed up with more elaborate studies called "maxi-reviews."

The consensus of opinion was that the rapidly approaching deadline would not allow departments enough time to complete reports containing the depth and detail required in the report guidelines. Several members of the Council voiced the opinion that it was futile to compare totally different departments such as history and chemistry. It was motioned and carried that the "mini-reviews" were to be submitted according to the original schedule, but were not to be used in the preparation of the

coming budget. (For the report submitted to GFC by Vice-President Baldwin, see *Folio* for 1 November.) □

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## Art Gallery Changes Name

Effective in January 1980, The University of Alberta Art Gallery and Museum will undergo a change in nomenclature to become the Ring House Gallery.

According to the Curator, Helen Collinson, the change will be made to help differentiate the administrative functions of the University Collections Centre from those of the Gallery. The Gallery, which continues to display exhibitions that catch the public interest, is, according to Mrs. Collinson, one of the most visible functions of the University Collections Centre. The change in nomenclature will assist the public by identifying the building in which the gallery is housed.

For more information concerning the Ring House Gallery, please contact Helen Collinson, Curator, Ring House Number One Edmonton, Alberta T6G 2E2 □

## people

*C.G. Hickey*, Chairman of the Department of Anthropology, presented a paper entitled "Copper Eskimo—Mackenzie Eskimo Interaction in the Late 19th Century: a Protohistoric Instance of an Arctic Boom Town" at the 12th Annual Meeting of the Archaeology Association. The meeting was held in Calgary, 18-20 October 1979.

*Dr. Karel Puffer*, Industrial and Vocational Education, was recently named a recipient of a 1979 Alberta Achievement Award.

*Shrawan Kumar*, of the Department of Physical Therapy, participated in 32nd Annual Conference on Engineering in Medicine and Biology 6-10 October 1979 at Denver, Colorado. Dr. Kumar presented two papers "Comparative evaluation of spinal supports" and "Intra-articular pressure in rheumatoid knees."

*John-Paul Himka*, Visiting Assistant Professor, Canadian Institute of Ukrainian Studies, presented a paper at the National Conception of the American Association for the Advancement of Slavic Studies in New Haven, 12 October 1979. The paper was entitled "Young Radicals and Independent Statehood: The Idea of a Ukrainian Nation-State, 1890-1895."

*Gratien Allaire*, Assistant Professor of History at Faculté Saint-Jean, presented a paper entitled "Les engagements pour la traite des fourrures 1701-1745" to the annual meeting of the Institut d'histoire de l'Amérique française in Ottawa on 19 October 1979.

*John E. Semple*, Associated Professor in the Department of Physical Therapy, Faculty of Rehabilitation Medicine, is to be

honored with an Alberta Achievement Award of Excellence on 10 November 1979.

The award, to be made by Premier Lougheed, is in recognition of Professor Semple's continuous contribution to the profession of physical therapy at provincial, national, and international levels over the past twelve years.

*E.D. Blodgett*, Comparative Literature, *John Foster*, History, and *Dick Harrison*, English, presented a panel discussion on Western Canadian History and Literature (English and French) at a recent conference of the Western Literature Association in Albuquerque, New Mexico.

*Karol Krotki*, Professor of Sociology, was program chairman of a three-day conference at the University of Montréal organized by the Federation of Canadian Demographers on the subject of "The Impact of Changes in Age Distribution"; he also co-authored two papers.

## coming events

*Listings must reach the Editor by 9 a.m. on the Thursday prior to publication. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.*

### Films

*The National Film Theatre*  
Until 11 November. The Alberta Film Festival.

14 November. 7:30 p.m. "The Iron Horse."

15 November. 7:30 and 9:15 p.m. "The Orphans."  
Showing in the Citadel's Zeidler Hall. Tickets \$2.75.

*Edmonton Public Library*  
10 November. 2 p.m. "Shape of

Things to Come." Centennial Library Theatre. Free admission.

### The Provincial Museum

10 November. 2 p.m. "Canada: Landform Regions," "The Shepherd," and "Turn of the Century."

11 November. 4 and 7 p.m. "The Fearless Vampire Killers."

14 November. 7 p.m. "Mysterious Island."

Free admission to all shows.

### Edmonton Film Society

14 November. 8 p.m. "The Hell of Pitz Palu." Tory Lecture Theatre.

### SUB Theatre

9 November. "Bullitt" starring Steve McQueen and Jacqueline Bisset.

10 November. "The Passenger" starring Jack Nicholson and Maria Schneider.

11 November. "A Night At The Opera" starring the Marx Brothers

12 and 13 November. "Midnight Cowboy" and "Sunday Bloody Sunday."

All performances at 7 and 9:30 p.m.

### Music

*The Edmonton Philharmonic*  
Edmonton's community orchestra has vacancies in all sections. Telephone 436-0815 or 436-5875 for information.

### Department of Music

15 and 17 November. 8 p.m. An Opera performance with "The Merry Wives of Windsor" by Otto Nicolai. Convocation Hall. Tickets available from the Music department.

### Edmonton Chamber Music Society

14 November. 8 p.m. The Emerson String Quartet. SUB Theatre.

### Exhibitions

*SUB Art Gallery*  
Continuing. "Swiss Photographers from 1840 until today."

### University Art Gallery and Museum

8 November-2 December. "Made in Alberta," an exhibition of works on paper by Ron Crawford, Barrie Szekely, Cathryn McEwen and Annette Lodge, all of whom have recently studied at the Banff Centre.

### Alberta Culture

Until 27 November. "The Persons They Were: Alberta Women, 1905-1929," an exhibition of the changing socio-political rôle of women in Alberta. The Legislature.

### Edmonton Art Gallery

9 November. "Harry Savage." Watercolors by this western Canadian artist and educator. "Edward Curtis." Photographs of the Kwakiutl Indians in 1910. Alberta Clay Sculpture. Ceramic works by Alberta artists. "Alan Reynolds." Recent wood sculpture by this Alberta artist.

### University of Alberta Archives Exhibition

Until 11 November. "Archives: An Intellectual Exhibition." Displaying in the University Art Gallery and Museum.

### University Special Collections

Continuing. "Follies and Fashions of our Grandfathers." A selection of books and fashion plates. B37 Cameron Library. Monday to Friday 8:30 a.m. to 4:30 p.m. Tuesday and Thursday until 9:30 p.m.

### Fireweed Gallery

Continuing. "Aerial Alberta." University Hospital Medical illustrator, Ralph McNabb, looks at Alberta landscape from the air. 8207 56 Street.

### Lectures and Seminars

#### Department of Comparative Literature

13 November. 3:30 p.m. Edith M. Gruber will present a paper entitled "Surrealist Lovva." Senate Chamber of the Arts Building.

### *Division of East European Studies*

13 November. 3:30 p.m.

R. Kymasz will speak on "V.D. Bonch—Bruevich and the Lenin Connection in Doukhobor Canadian Folkloristics." 311 Athabasca Hall.

### *Department of Physics*

13 November. 3:30 p.m.

E.J. Llewellyn of the University of Saskatchewan will talk about "New Ideas in Auroral Excitation." V128 Physics Building.

### *Edmonton Public Library Writers' Series*

12 November. 7:30 p.m.

Tom Wayman and Myrna Kostash. Woodcroft Library. Free admission.

### *Classics Seminar*

15 November. 4 p.m. J. Freed will speak on "The Pottery from San Giovanni di Ruoti: What it Reveals about Late Roman Culture in Italy." 1-8 Humanities Centre.

### *Entomology Seminar*

15 November. 4 p.m. Charles Hogue of the Natural History Museum of Los Angeles will talk about "Armies of the Ant" and "Adaptations of Insects (and Collectors) to the Torrential Water Habitat." 62 Athabasca Hall Annex.

### *Paul Kane House*

14 November. 12 noon. Lois Gander will speak on "Demystifying the Legal Process." 10220 121 Street.

### *Department of Economics*

14 November. 3 p.m. Brian Scrafe will address "Inflation, Inventories, and Employment Fluctuations: Towards a New Research Agenda." 8-22 Tory Building.

### *Botany Seminar*

14 November. 4 p.m. Maurice Levy of Purude University will be guest lecturer.

### *Theoretical Physics*

14 November. 3:30 p.m. T. Matsurbara of the University

of Kyoto will talk about "Theoretical Aspects of Disordered Systems." P640 Physics Building.

15 November. 3:30 p.m. John L. Friedman of the University of Chicago will speak on "Geometry of the Fermion-Boson Construction." P523 Physics Building.

## Intercollegiate Sport

### *Hockey*

10 November. Saskatchewan.

## Theatre

### *Workshop West*

15 November. "Of The Fields Lately." Telephone 436-7378 or 477-7173 for information.

### *Northern Light Theatre*

Until 18 November. "Wings" starring Ann Casson.

### *The Citadel*

*The Rice Theatre*  
7 November. "A Sleep of Prisoners."

### *The Shoctor Theatre*

Until 25 November. "Brief Lives."

## Television

### *Academic Confrontations*

A series with A. Motejko of the Department of Sociology. Dr. Motejko talks to members of the academic community:

11 November. 11 p.m. "QC Side" with Jim Russell.

12 November. 12 noon. "QC Side" with Jim Hackler.

5 p.m. "QC Side" with Roman Petryshyn.

13 November. 11:30 a.m. "QC Side" with Barry Mills.

5:30 p.m. "QC Side" with N. Petryszak.

15 November. 5:30 p.m. "QC Side" with E. Mozejko.

16 November. 9:30 p.m. "City Wide" with Ivan Rudnytsky.

17 November. 11:30 a.m. "QC Side" with B. Krawchenko.

10 p.m. "City Wide" with Fred Ingleman.  
QCTV Cable 10.

## Radio

8 November. 7 p.m. *Voice Print: The Word Enchanted*. This week *Voice Print* examines the sacred word—the notion of logos, holy scripture, incantation chants. In the literary supplement, the poet as prophet, holy man, and seer will be discussed.

CKUA (580 AM, 95 FM)

9 November. 7 p.m. *Lagal Maze: Reacting to Juvenile Delinquency*.

This week, the *Legal Maze* examines some of the ways in which our judicial and social systems deal with juvenile delinquency.

CKUA (580 AM, 95 FM)

10 November. 7 p.m. This week *University Concert Hall* features the Symphonic Wind Ensemble—Fordyce Pier—director—in a live recording from a concert given in Convocation Hall.

CKUA (580 AM, 95 FM)

11 November. 8 a.m. This week *Idealog* looks at the Bank of Canada; how it monitors interest rates and the position of the gold standard.

CKXM (100.3 FM)

12 November. 8 a.m. *The Radio Hour: 1910-1920*. The second in our ten-part series, exploring events, trends and directions of our 20th century. This week we explore the 1910-1920 decade.

CKXM (100.3 FM)

service  
information

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## Notices

### *Radiation Safety Course*

The Radiation Control Office is sponsoring a radiation safety course for technicians. The course runs from 9 a.m. to 12 noon daily 13 to 21 November. A \$1 registration fee will be collected at the first session. For information telephone 432-5655.

### *Tropical Greenhouse*

The tropical greenhouse will be closed until further notice as a result of repairs to the HM Tory Building.

### *Remembrance Day Closures*

Most University buildings will be closed on Monday, 12 November 1979 (Remembrance Day) and classes have been cancelled. All University Libraries except the Law Library will be closed.

The Cameron, Rutherford, and Education Libraries will be open for the regular hours on Saturday and Sunday, 10 and 11 November.

### *University Planning Committee*

The GFC Nominating Committee is seeking nominations to fill the vacancy for a member of the academic staff to serve on the University Planning Committee.

Would those who have suggestions for nominations or who are interested in serving on the above Committee please contact the Secretary of the GFC Nominating Committee at 2-1 University Hall. Telephone 432-4715. It would be useful if a very brief vita could accompany any nomination.

### *Capital Equipment Purchases*

A program has been developed to provide the carry-over of unspent capital equipment funds into the next budget year. This carry-over will be limited to the lesser of fifteen percent of the departmental capital equipment budget or \$25,000. Where the balance of unexpended funds is sufficient, commitments incurred by purchase orders placed before 31 December will be allocated a carry-over equivalent to the amount of the commitment.

Where the balance of your unexpended and/or uncommitted capital equipment budget is presently in excess of the foregoing limits, you are urged to place purchase orders for your further needs now to help ensure that delivery is effected before 31 March 1980. The program will not provide a carry-over in relation to commitments by purchase orders placed later than 31 December other than in instances where a well documented justification of circumstances merits exception. Application for exemption should be submitted to the attention of D. Grover, Office of the Comptroller. Final approval on capital equipment carry-overs remains with the Vice-President (Planning and Development), R.E. Phillips.

Unexpended funds in excess of the limiting factors will lapse into a Capital Equipment Contingency Account.

### Christmas Cards

The Department of English once again offers CANSAVE Christmas cards to members of the University community. The cards are available in the departmental office, 3-5 Humanities Centre, in packets of ten. The prices per packet are \$1, \$2, and \$3.

### 1979 Clifford E. Lee

#### Playwriting Workshops

The workshops for two of the 1979 finalists will take place at the Fine Arts Centre, University of Alberta. The two plays to be workshopped are *Tenants of Dreamwell* by Tom Grainger, and *St. Peter's Asylum* by William Horrocks. The workshops run from 12 November to 24 November.

### Pediatric Care

The Pediatric Ambulatory Clinic is accepting children and adolescents of staff members for on-going pediatric care. For further information telephone 432-6370.

## Non-Credit Courses

### Faculty of Extension

#### Motivating Subordinates

Date: 21 November. Fee: \$75.  
Telephone: 432-5066 or 432-5067.

#### Short Course on the Income Tax Act

Date: 6 November. Fee: \$75.  
Telephone: 432-5066 or 432-5067.

#### T.A. For Helpers

Date: 15 and 16 November. Fee: \$50.  
Class limit: 24. Telephone: 432-5069.

#### Educational Brokering:

##### An Introduction

Date: 8 November. Fee: \$50.  
Telephone: 432-5055.

## Scholarships, Fellowships and Awards

### Natural Sciences and Engineering

#### Postdoctoral Fellowships

Fellowships valued at \$14,000 are available at the PhD level in the sciences and engineering. Tenable with industrial organizations in Canada. Student Awards Office, Athabasca Hall.

### IODE War Memorial Scholarships

Study scholarships valued at up to \$6,500 are available at the post graduate level in most fields of study. The scholarships are tenable in Canada or the British Commonwealth. Student Awards Office.

### Frank Knox Memorial Fellowship

Fellowships at the graduate level are available in most fields of study. The fellowships are valued at \$4,000 and are tenable at Harvard University. Student Awards Office.

### Izaak Walton Killam

#### Postdoctoral Fellowships

Fellowships valued at \$13,500 are available at the postdoctoral level in most fields of study. Tenable at Dalhousie University. Student Awards Office.

## Courses

### Postgraduate MBA Program

A ten month MBA postgraduate program is being offered at Fontainebleau in France. The program will be of interest to engineers, scientists, lawyers, economists, and social scientists. Student Awards Office.

## Positions Vacant

### On-Campus

#### Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 2 November.

Slaes Clerk I (\$707-\$761)—Bookstore  
Clerk Typist II (\$707-\$817)—Provincial Laboratory; Educational Administration; Surgical-Medical Research Institute  
Clerk Steno II (\$707-\$844)—Secondary Education; Forest Science; Extension (2 positions)  
Dental Assistant I (\$733-\$878)—Dental Clinical Sciences  
Dispensary Clerk (\$733-\$878)—Dentistry  
Clerk Typist III (\$761-\$910)—Rehabilitation Medicine; Pharmacy; Library Science  
Senior Financial Records Clerk (\$785-\$945)—Office of the Comptroller  
Clerk Steno III (\$785-\$945)—Psychology; Business Administration and Commerce; Student Counselling Services; Educational Psychology; Chemical Engineering; Continuing Medical Education; Civil Engineering; Provincial Laboratory; Physiology; Philosophy; Mechanical Engineering; Secretariat; University Occupational Health, Safety and Fire; Mineral Engineering (2 positions)  
Data Entry Operator I/II (\$785-\$1,026)—Computing Services  
Programmable Typewriter Operator II (\$817-\$985)—Civil Engineering  
Student Record Processing Clerk (\$917-\$985)—Education—Students Records Office  
Accounts Clerk (\$844-\$1,026)—Office of the Comptroller (2 positions)  
Medical Steno (\$844-\$1,026)—Medicine (3 positions)  
Secretary (\$878-\$1,071)—Dentistry; Psychology; Chemistry, Technical Services; Audio Visual Media Centre; Dean of Agriculture and Forestry; Secretariat

Department Secretary (\$1,027-\$1,264)—Board of Governors  
Department Secretary (half-time) (\$492.50-\$606.00)—Slavic Languages  
Laboratory Assistant II (\$733-\$878)—Pharmacy and Pharmaceutical Sciences  
Computer Assistant II (\$817-\$985)—Computing Services  
Maintenance Man I (\$844-\$1,026)—Housing and Food Services  
Storeman II (\$878-\$1,071)—Zoology  
Civil Engineering Technician I (\$910-\$1,115)—Civil Engineering (2 positions)  
Audio Visual Technician I (\$910-\$1,115)—Audiovisual Media Centre  
Research and Planning Analyst II (\$910-\$1,115)—Vice-President Planning and Development (Planning Office)  
Computer Operator I (\$945-\$1,162)—Computing Services  
Technician I (Trust) (\$949-\$1,162)—Medicine  
Animal Technician I (Trust) (\$949-\$1,162)—Animal Science  
Audio Visual Technician I/II (Trust) (\$949-\$1,318)—Legal Resource Centre  
Audio and Video Technician I/II (\$985-\$1,377)—Radio and Television  
Publications Assistant (\$1,026-\$1,264)—Entomology  
Security Officer I (\$1,026-\$1,264)—Campus Security (2 positions)  
Technician II (\$1,026-\$1,264)—Mineral Engineering; Oral Biology  
Technologist I (\$1,026-\$1,264)—Home Economics (Food); Surgery  
Biochemistry Technologist I (Trust) (\$1,070-\$1,318)—Biochemistry  
Bacteriology Technologist I (Trust, Term) (\$1,070-\$1,318)—Medical Bacteriology  
Animal Technician II (\$1,071-\$1,320)—Animal Science  
Graphics Technician III (Signage) (\$1,162-\$1,439)—Technical Services  
Accounting Assistant (Audit) (\$1,162-\$1,439)—Internal Audit  
Electronics Technician II/III (Trust) (\$1,116-\$1,565)—Physics  
Civil Engineering Technician III (\$1,162-\$1,439)—Civil Engineering  
Machinist Technician II/III (\$1,162-\$1,638)—Physics  
Administrative Assistant (Trust) (\$1,212-\$1,500)—Legal Resource Centre  
Chemical Technologist II (Trust) (\$1,212-\$1,500)—Animal Science  
Electronics Technician III (\$1,212-\$1,501)—Physics (2 positions)  
Programmer/Analyst II (\$1,212-\$1,501)—Forest Science  
Typographical Tradesman III/IV (\$1,212-\$1,569)—Printing Services  
Programmer/Analyst II/III (\$1,212-\$1,789)—Physics  
Technologist III (\$1,320-\$1,638)—Mineral Engineering; Chemical Engineering  
Machinist Technician III (\$1,320-\$1,638)—Technical Services  
Civil Engineering Technician IV (Trust) (\$1,376-\$1,708)—Civil Engineering  
Programmer/Analyst III (\$1,439-\$1,789)—Computing Services

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should

be consulted for further information as to availability and position requirements.

Library Clerk III (\$761-\$910)—Cataloguing

## Off-Campus

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## Advertisements

must reach the Editor by 3 p.m. on the Thursday prior to publication, which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

### Accommodations available

For rent—Large three-bedroom apartment, own entrance, new four-plex, for family or small group. Appliances, some utilities included. Central, quiet location, 14615 103 Avenue. Phone 458-8478.

For sale—Well treed Devon acreage with 2,000 sq. ft., unique open beam, two storey on 5 acres. Features 22' ceiling, fireplace, family room, library, lofts, asking \$142,900. \$90,000 mortgage. Ken 439-0035, 462-3447 Crescent Realty.

For sale by owner—2 x 100 acres divided by country road. Natural ski slopes; excellent for country lodge. Beautiful view to Pembina Valley. Not good for farming. \$200,000. Cash preferred. 433-0629, 727-2483.

For sale—South Garneau. Two bedroom house in excellent condition, 1½ storeys. 1,300 sq. ft. Spacious living room and dining room. \$92,000. 439-2948.

For sale—Gorgeous 1,485 sq. ft., three bedroom bungalow on quiet cul de sac in prestigious Blue Quill. Luxuriously decorated in neutral tones. Call Doris Williams 434-0527. 436-4240 Block Bros. Realty Ltd.

For rent—Luxury executive townhouse. West-end. 1,300 sq. ft. End unit. Heated garage. Automatic opener, five appliances, three bedrooms, fireplace. Ideal for couple. \$550 monthly. References required. Phone evenings, weekends. 435-0250.

For rent—Furnished or unfurnished three bedroom house. Study, playroom, extra bedroom in basement. All appliances, vacuum system, double garage. Quiet ravine area, ten minutes from downtown. Non-smokers, no pets. References, damage

deposit required. Available January - August 1980. \$700 monthly. 465-2750.  
For rent—Bi-level, St. Albert. 20 minutes from campus. Quiet crescent, sunset views. Two or three bedroom, two baths, two fireplaces, furnished or unfurnished. Eight month lease. Available before Christmas. \$490. References. 458-4807.

For rent—Furnished four bedroom house. Available for eight months from January 1980. Overlooking Rainbow Valley. Good bus service to campus. 432-3304, 434-0590.

For sale—New contemporary custom built and designed two storey residence on Wolf Willow Farms. Brick and cedar exterior, spacious master suite offers sunken tub, fireplace, etc. 2,000 sq. ft. \$155,900, 10¼% mortgage. As low as \$20,000 down. Call 436-3796 or 436-3606 after 6 p.m.

For sale—Windsor Park. Three bedroom bungalow. Double garage, large lot. Resi Richter 483-9432, 455-4135. Weber's.

For rent—To two persons, last week November - last week April. House in westend. Two bedrooms available. Completely furnished, attached garage. 483-8901.

For rent—Fully furnished three bedroom house available for six months beginning January 1980. 15 minutes from University. Very reasonable rental rate. Ernie. 432-2291 or 434-0543.

For sale—By owner, Windsor Park. Three bedroom bungalow. 1,400 sq. ft., open fireplace, family kitchen, garage. No agents. 433-8359, 433-8452.

For sale—7.78 acres of land with ocean frontage on the S.W. shore of N.S. within four miles of some of Nova Scotia's finest beaches. Ruggedly beautiful scenery. Surveyed. 80 miles from Halifax. \$46,000. Phone G. Ramey. 439-7063, 432-2950. 7 - 10 p.m. Serious inquiries only.

For rent—Two bedroom house, view lot on Strathearn Drive, 10 minutes to University. Four appliances, basement suite rented, 1 Nov. or 15 Nov. 469-6376 after 5 p.m.

For sale—By owner, Windsor Park. Three bedroom house. Completely finished basement. For appointment call 433-7316 evenings.

For sale—Riverbend condominium. Over 1,400 sq. ft. with two bedrooms and bathrooms, five kitchen appliances, insuite storage and laundry room, underground heated parking. Easy access to University. Call Denise Rout 432-7398 res., 436-5250 Spencer Real Estate.

For sale—Four bedroom. 2,200 sq. ft. home on Brander Drive. Many extras and close to new excellent squash/racquetball facilities. Must sell fast. Call DeAnna Larson 481-0936 or Spencer Real Estate 436-5250.

For sale—Windsor Park provides the opportunity to walk to University, close to downtown. Super exciting design, main floor den, three beautiful stove fireplaces, feature wood

panelling, extensive use of double glazed windows open to view the very large private treed yard. Two garages and many contemporary extra features. Call Liz or Eva. Spencer Real Estate. 436-5250, res. 434-0555, 437-5603.

For rent—Main floor of charming, old house. Four bedrooms (one with open fireplace), huge kitchen, dining room, living room (with open fireplace) and bath. Rent approximately \$600. 452-2423.

For sale—Ravine view. Impressive custom designed two storey. Spacious rooms open to the view. Old brick and cedar exterior. 2,800 sq. ft., six bedrooms, top of the line appliances, carpet, etc. Owner transferred. South west. Call Liz Crockford, Spencer Real Estate 436-5250, 434-0555 res.

For sale—Bungalow in Windsor Park at 8932 116 St. For appointment call 439-4207.

For sale—University neighbor. 12½% financing available. This Windsor Park bungalow offers 2,400 sq. ft. of living space on huge lot. Seconds away from U of A. A must to see! Guaranty Trust Realtor. Call Barry McGugan 465-0574, 433-0125.

For rent—Executive bungalow. Completely furnished, three bedrooms, linens, dishes, etc. Quiet park area, close to schools. Excellent access to all areas of Edmonton. 30 December for 4-6 months. 466-6883.

For sale—New two-storey, 2,050 sq. ft. home. Walking distance to U of A. Unique floor plan. \$135,900. Must be seen. For showing call Karin Palutke, Block Bros. Realty. 452-7950, 963-2656.

For rent—Fully furnished home, University area. Appliances, china, linens, heated garage (electric door). Phone 436-3870 for appointment.

For sale—House. Walk to University from this charming custom built bungalow in super condition. Absolutely spotless, owner occupied, but can be great revenue property, too. One of the best buys in University area. Excellent financing, only \$7,900 down. Call Marta Misk. Res. 487-5947, bus. 436-1140. Buxton Realty Ltd.

For sale—Aspen Gardens. Three bedroom, doll house, priced at \$83,900. Large garage, good lot, near ravine. Call Mrs. Anderson 434-4460 or Royal Trust 435-4869.

For sale—North Glenora area. Three bedroom semi bungalow. 1,800 sq. ft., spiral staircase, large sauna off bath, Remodelled, rewired, re-insulated. Double lot, garage, high cedar fence, fireplace, large trees. \$125,000. 455-9518 for appointment.

For rent—Partitioned consulting office for assignment. Easily accessible to University and city centre. Suitable for surgical-medical specialists or other professionals. Available 1 January 1980. 729 sq. ft., four rooms. 3½ years on existing lease with five year

renewal. Rent. \$10.85/sq. ft./year, negotiable, with 1977 base year. (N.B. This is not a triple-net lease). Address: 103 Academy Place, 11520 100 Avenue. Phone 433-7017 or 488-5331.

For sale—Blue Quill. Warmly decorated Perry. Five bedrooms, 2,363 sq. ft. Large 10¼% assumable mortgage. Near bus, large lot, completely fenced, one year old. Listed at \$144,900. Phone Mrs. Reid 435-4869.

For sale—By owner. Attractive, three-bedroom, semi-bungalow in Belgravia. Close to almost everything. Hardwood floors, two remodelled four piece bathrooms, Dreger kitchen, fully developed basement with bedroom, playroom and cedar panelled den. Beautiful trees. 436-6742. 11418 75 Avenue. \$115,000.

For rent—House in Belgravia at 80 Ave. - 119 St. Four bedrooms, double garage, greenhouse, all appliances included. Available in early January. Call 432-0806 after 6 p.m. Storage space on rural acreage for trailer, etc. 477-2908.

#### Accommodations wanted

Furnished accommodation for visiting New Zealand scientist, wife and daughter. Five months from mid-January, 1980. L. Milligan 432-5784.

#### Automobiles and others

Wanted older Datsun 510 or other Japanese car, working or not. 477-2908.

1975 Volvo 245 DL wagon, roof rack, radio, tach., Michelin radials. \$4,000 O.N.O. 432-5367, 436-6456.

1968 GMC Suburban 4x4, V8, free-wheeling hubs, extra heater, new tires, brakes, shocks. Great for hunters or skiers. \$2,000 O.N.O. 432-5367 or 436-6456 after 5 p.m.

For sale—Toyota Celica 1972. Many extras. \$900. Citroen DS 1971. 439-1739.

1978 Dodge Diplomat, bronze, two door, 318, air, V.G. condition. 433-4509.

#### Goods for sale

Wanted old color portable TVs. Call 477-2908.

For sale—Electrohome spinet organ. Leslie speaker. Reverb French Provincial cabinet. \$1,500. Phone Don 467-6445. 432-4901.

For sale—Two men's coats. Camel hair and sheepskin, sizes 40 & 36 \$200 each. 436-3716 evenings.

For sale—Colonial sofa and chair, desk, chest of drawers, lamps, miscellaneous. 436-4505.

Shaklee food supplements, organic cleaner, skin care products. Phone Betty 434-6098.

Panasonic R.F. 2,800 short wave AM/FM radio, \$300. Vivitar 265 zoom flash, \$40. Solid teak coffee table, \$70. 424-2633 after 6 p.m.

For sale—Baycrest sewing machine, Smith Corona 220 electra typewriter, maple rocking chair, teak bookcase,

Bauhaus queen size sofa bed, baby walker, highchair, jolly jumper, rocker-chair, morlands boots (ladies 10½), ladies down coat size 16. 439-2948.

For sale—Used Westinghouse refrigerator, best offer. 436-2738, 6-8 p.m. High quality electronic piano, \$1,200. Full 88 notes. Dean 432-3796, 436-1879.

#### Services

Edmonton Yoseikan Karate Club:

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BUS. 437-6550

## ARE YOU INTERESTED IN RESEARCH?

FUNDING FOR MENTAL HEALTH RESEARCH PROJECTS IS NOW AVAILABLE

Funding for mental health research projects is now available through the Provincial Mental Health Advisory Council. Of particular interest are research proposals related directly to the following topics:

An investigation of the **mental health needs of residents in nursing homes**, auxiliary hospitals, special care facilities including those involved in rehabilitation of ex-psychiatric patients.

An investigation into the **causes of relapse in persons discharged from psychiatric facilities** and/or into techniques of rehabilitation of chronically mentally ill persons in the community.

The determination of the specialized training needs of persons preparing for employment in **programs for the aging**.

An epidemiological assessment of the prevalence of **severe emotional disturbances among Alberta's elementary school children**.

What teacher/counsellor training, attitudes and behaviours enhance/hinder the **mental well-being of Alberta elementary school children**.

An investigation of mutual help, **self-help models in mental health community care**.

An investigation of strategies for the **integration of native persons into urban settings**.

The deadline for receipt of research proposals is 11 January 1980. Peer review will be used in evaluating all proposals submitted to the Council. Those proposals related to the above areas and which receive good reviews will be given high priority.

It should be noted that the advisory council continues to be interested in proposals for any research in the area of mental health.

*For guidelines governing these grants or an application form, contact:*

*Executive Secretary  
Research Committee  
Provincial Mental Health  
Advisory Council  
10030 107 Street  
EDMONTON, Alberta  
T5J 3E4*

*Phone: 427-2813*

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